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**MEDICAL LEAD AND LEAD CONNECTOR SYSTEM****ABSTRACT OF THE DISCLOSURE**

A lead connector arrangement includes a non-cylindrically shaped connector pin coupled to a lead conductor and a connector sleeve assembly for receiving the non-cylindrically shaped connector pin. The connector sleeve assembly includes an insert with an axial bore formed therein that complements the shape of the non-cylindrical connector pin. According to one embodiment, the non-cylindrical connector pin may be provided in the form of a triangular, square, rectangular, or hexagonal shape. The axial bore has a complimentary shape to receive the connector pin. When the connector pin is threaded through the connector sleeve assembly using a pull-wire device, the pull-wire device may be unscrewed from the connector pin without causing axial rotation of the lead conductor when the connector pin is fully inserted within the axial bore.

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